

CLAIMS

1. A pest controller comprising a portable container holding a chemical substance therewithin,
5 wherein the container comprises a substance exposing portion for exposing the chemical substance held therein to outside, and a cover for sealing the substance exposing portion;
 the chemical substance containing an active ingredient with a pest-controlling effect, and
10 the active ingredient being volatilizable at a normal temperature.
2. The pest controller as defined in claim 1,
 wherein the chemical substance is contactable with an open air at the substance exposing portion so as to be released into the air therefrom when
15 the cover is open.
3. The pest controller as defined in claim 1 or 2,
 wherein the substance exposing portion is provided with an applicator for applying the chemical substance onto a body.
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4. The pest controller as defined in claim 1, 2, or 3,
 wherein the substance exposing portion is constituted by a member selected from a group consisting of a porous body, a fibrous bundle and a member with a through-hole, so that the chemical substance is exposed on a
25 surface thereof.
5. The pest controller as defined in one of claims 1 to 4,

wherein the substance exposing portion is constituted by a member selected from a group consisting of a ball and a roller both being rotatable.

6. The pest controller as defined in one of claims 1 to 5,
5 wherein the chemical substance is directly held within the container.
7. The pest controller as defined in one of claims 1 to 6,
wherein the chemical substance has a fluidity; and
wherein the container further comprises a substance storage containing
10 the substance and a substance lead-out member provided between the
substance storage and the substance exposing portion so as to lead the
substance out of the substance storage through the substance lead-out
member to the substance exposing portion.
- 15 8. The pest controller as defined in one of claims 1 to 7,
wherein the container accommodates a substance retaining member;
the chemical substance being capable of flowing, and retained in the
substance retaining member.
- 20 9. The pest controller as defined in one of claims 1 to 8,
wherein the substance retaining member is made of fiber.
10. The pest controller as defined in one of claims 1 to 9,
wherein the container further comprises a storage tank and a temporary
25 receptacle for the chemical substance.
11. The pest controller as defined in one of claims 1 to 10,

wherein the container is of a cylindrical shape; and
wherein the substance exposing portion is placed at an end of the
container of cylindrical shape.

- 5 12. The pest controller as defined in one of claims 1 to 11,
wherein the container further comprises a container body holding the
chemical substance therewithin;
wherein the body accommodates a substance retaining member
adapted to absorbing the chemical substance,
10 the substance retaining member soaked with the chemical substance;
and
wherein the body is provided with the substance lead-out member
adapted to leading the chemical substance out of the body;
a proximal part of the substance lead-out member being in contact with
15 the substance retaining member and a distal part of that being exposed out of
the body.

13. The pest controller as defined in one of claims 1 to 12,
wherein the substance exposing portion is adapted to adjusting an
20 exposing area of the chemical substance.

14. The pest controller as defined in one of claims 1 to 13,
wherein the substance exposing portion has a window, an opening area
of which is changeable.

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15. The pest controller as defined in one of claims 1 to 14,
wherein the container further comprises a container body holding the

chemical substance therewithin, so as to hold a liquid chemical substance with a fluidity within; and

wherein the body is provided with a substance lead-out member adapted to lead the chemical substance out of the body and a valve system;

5 the valve system being open by a predetermined operation, whereby the chemical substance inside creeps through the substance lead-out member so as to be exposed out of the body.

16. The pest controller as defined in one of claims 1 to 15,

10 wherein the container further comprises a substance holder holding the chemical substance with fluidity in a sealing condition therewithin;

the substance holder having a follower moving according to a consumption of the chemical substance.

15 17. The pest controller as defined in claim 16,

wherein the follower is gel.

18. The pest controller as defined in one of claims 1 to 17,

20 wherein the container further comprises a container body holding the chemical substance therewithin so as to hold a liquid chemical substance with a fluidity therewithin;

wherein the body is provided with a substance lead-out member adapted to leading the chemical substance out of the body; and

25 wherein to the substance lead-out member a substance releasing member separately provided is attachable.

19. The pest controller as defined in one of claims 1 to 18,

wherein the container further comprises a container body holding the chemical substance therewithin and an attachment detachable from the body and attachable to the body in at least two ways of attachment, so as to hold a liquid chemical substance with a fluidity therewithin; and

5 wherein the body is provided with a substance lead-out member adapted to leading the chemical substance out of the body;

the attachment being provided with a cover for sealing the substance lead-out member, and a substance releasing member for helping release of the chemical substance;

10 the substance lead-out member being sealed by attaching the attachment to the body in a particular position;

the chemical substance being supplied to the substance releasing member from the substance lead-out member by attaching the attachment in another particular position.

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20. The pest controller as defined in one of claims 1 to 19,

wherein the container has a deformable portion so that the chemical substance inside the container will be brought out by pressing the deformable portion.

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21. The pest controller as defined in one of claims 1 to 20,

wherein the container has a pressurizer for increasing the inner pressure of the container so that the chemical substance is brought out.

25 22. A pest controller comprising a container holding a chemical substance of columnar shape therewithin;

wherein the container has an opening communicating with the inside of

container, and a cover for sealing the opening from outside;

the cover being adapted to opening and shutting;

the chemical substance being adapted to be propelled out of the container through the opening;

5 the chemical substance containing an active ingredient with a pest-controlling effect;

the active ingredient being volatilizable at a normal temperature.

23. The pest controller as defined in one of claims 1 to 22,

10 wherein the container further comprises a container body, an operating portion turnable relative to the body, and a screw positioned in the body;

the screw being adapted to turning in response to a turn of the operating portion, so that a force generated by the screw makes the chemical substance be propelled out of the body.

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24. A pest controller comprising:

a solid chemical substance formed in a particular shape and containing an active ingredient with a pest-controlling effect;

the active ingredient being volatilizable at a normal temperature; and

20 a coat formed on the surface of the chemical substance so as to be exfoliated by a predetermined amount.

25. A pest controller comprising a container holding therewithin a chemical substance formed in the shape of a rod;

25 wherein the chemical substance contains an active ingredient with a pest-controlling effect;

the active ingredient being volatilizable at a normal temperature;

wherein the container has a pusher for pressing the chemical substance, and a chuck being adapted to holding and releasing the chemical substance so that the chemical substance is pushed out by pressing the pusher and held by the chuck, thereby the chemical substance is prevented from moving back.

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26. The pest controller as defined in one of claims 1 to 25, comprising a heater for heating the chemical substance.

27. The pest controller as defined in one of claims 1 to 26,

10 wherein the container further comprises a container body holding the chemical substance therewithin, and a cap being separable from the body and being attached to the body so as to constitute the cover.

28. The pest controller as defined in one of claims 1 to 27,

15 wherein the container is equipped with a holder for attaching the controller to a body.

29. The pest controller as defined in one of claims 1 to 28,

wherein the container is of a tabular shape; and

20 wherein the substance exposing portion is of a planar shape.

30. The pest controller as defined in one of claims 1 to 29,

wherein the cover for sealing the substance exposing portion comprises a deformable sheet;

25 the sheet being removable, so that the cover of substance exposing portion is detached by removing the sheet.

31. The pest controller as defined in one of claims 1 to 30,
wherein the container is adapted to be directly worn and/or attached to
clothes.
- 5 32. The pest controller as defined in one of claims 1 to 31,
wherein the container has an attaching member for attaching the
controller to a body.
- 10 33. The pest controller as defined in one of claims 1 to 32,
wherein at least a part of the container is made of biodegradable resin.
34. A pest controller comprising a main body being portable and attachable
to a human body and/or clothes,
wherein the main body has a substance exposing portion for exposing a
15 chemical substance to outside;
the chemical substance containing an active ingredient with a
pest-controlling effect,
the active ingredient being volatilizable at a normal temperature,
the chemical substance being released from the substance exposing
20 portion into an open air.
35. The pest controller as defined in claim 34, further comprising a cover
for sealing the substance exposing portion;
wherein the cover comprises a deformable sheet;
25 the sheet being removable, so that the cover of substance exposing
portion is detached by removing the sheet.

36. A pest controller comprising a portable and airtight bag,
wherein the bag is adapted to release a sealing condition by releasing
an airtightness; and
wherein the bag accommodates a fiber soaked with a chemical
5 substance;
the chemical substance containing an active ingredient with a
pest-controlling effect against harmful pests for human body,
the active ingredient being volatilizable at a normal temperature.
- 10 37. A pest controller comprising a portable and air-permeable bag,
wherein the bag incorporates a chemical substance;
the chemical substance containing an active ingredient with a
pest-controlling effect against harmful pests for human body,
the active ingredient being volatilizable at a normal temperature.
- 15 38. The pest controller as defined in claim 37,
wherein the chemical substance is liquid; and
wherein the bag accommodates a substance absorbing member soaked
with the chemical substance.
- 20 39. The pest controller as defined in claim 37 or 38,
wherein the bag is equipped with an attaching member being
attachable to a body.
- 25 40. The pest controller as defined in one of claims 1 to 39,
wherein the active ingredient has a vapor pressure at 25°C by Donovan
method within a range of 1×10^{-5} mmHg to 5×10^{-3} mmHg.

41. The pest controller as defined in one of claims 1 to 40,
wherein the active ingredient is a pyrethroid compound.
- 5 42. The pest controller as defined in claim 41,
wherein the pyrethroid compound has a vapor pressure at 25°C by
Donovan method within a range of 1×10^{-5} mmHg to 5×10^{-3} mmHg.
43. The pest controller as defined in one of claims 1 to 42,
10 wherein the chemical substance contains a sublimable dyestuff.
44. A method for controlling pests with the pest controller as defined in one
of claims 1 to 43 by opening the cover of the pest controller at a spot for
pests so as to volatilize the chemical substance containing the active
15 ingredient into the air from the substance exposing portion, thereby getting
rid of harmful pests.
45. A method for controlling pests with the pest controller as defined in one
of claims 1 to 43 by contacting the applicator with a spot for pests to apply
20 the chemical substance on the spot so as to volatilize the chemical substance
containing the active ingredient into the air, thereby getting rid of harmful
pests.